

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number
WO 2005/000392 A3

(51) International Patent Classification⁷: **A61N 1/04**,
1/08, 1/39

(21) International Application Number:
PCT/IB2004/001937

(22) International Filing Date: 1 June 2004 (01.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/483,197 27 June 2003 (27.06.2003) US

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DENNEY, Douglas** [US/US]; P. O. Box 3003, Bothell, Washington 98041-3003 (US). **LYSTER, Thomas** [US/US]; P. O. Box 3003, Bothell, Washington 98041-3003 (US). **DIEDERICHS, Joseph** [US/US]; P. O. Box 3003, Bothell, Washington 98041-3003 (US). **KINGSBURY, Daniel**

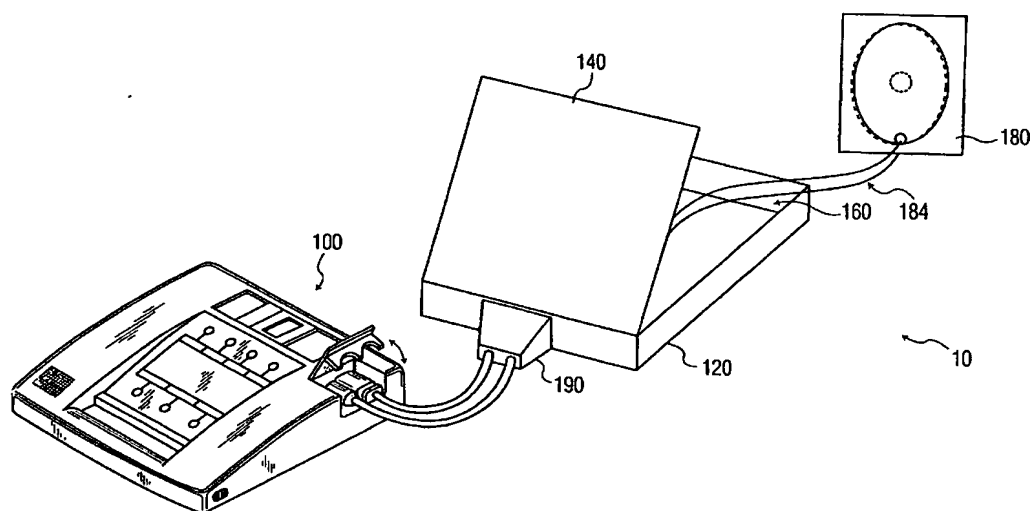
[US/US]; P. O. Box 3003, Bothell, Washington 98041-3003 (US). **JONSEN, Eric** [US/US]; P. O. Box 3003, Bothell, Washington 98041-3003 (US). **GREENSTEIN, Alan** [US/US]; P. O. Box 3003, Bothell, Washington 98041-3003 (US). **SOLOSKO, Thomas** [US/US]; P. O. Box 3003, Bothell, Washington 98041-3003 (US). **POWERS, Daniel** [US/US]; P. O. Box 3003, Bothell, Washington 98041-3003 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: METHOD OF DETECTING WHEN ELECTRODE PADS HAVE BEEN HANDLED OR REMOVED FROM THEIR PACKAGE



(57) Abstract: Handling or removal of a pair of pre-connected defibrillator electrode pads from their package, or a compartment in the defibrillator, is detected in order to effectively time the issuance of prompts to guide the user. Detection occurs when an impedance level between the electrode pads varies sufficiently over time to indicate occurrence of the handling or removal event. The pads are preferably configured to leverage variability in the impedance that results from bending of pads during handling or removal.



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
14 April 2005

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.